



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 6/7/2017

Version: 4

Language: en-US

Date of print: 10/12/2017

Cleaning Tablets for Carbonizer and Cooler

Material number 40456045

Page: 1 of 7

1. Product and company identification

Product identifier

Trade name: Cleaning Tablets for Carbonizer and Cooler

Relevant identified uses of the substance or mixture and uses advised against

General use: Cleaning agent

Details of the supplier of the safety data sheet

Company name: Grohe AG
Street/POB-No.: Industriepark Edelburg
Postal Code, city: 58675 Hemer
Germany
WWW: www.grohe.com
E-mail: info@grohe.com
Telephone: +49 (0)2372 93-0
Telefax: +49 (0)2372 93-1322
Dept. responsible for information:
Telephone: +49 (0)2372 93-2037
sustainability@grohe.com

Emergency phone number

**GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240**

2. Hazards identification

Emergency overview

Appearance: Form: solid, Tablets
Color: white
Odor: weak
Classification: Eye Irritation - Category 2A; Aquatic toxicity - chronic - Category 3;

Hazard symbols:



Signal word:

Warning

Hazard statements:

Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.

Precautionary statements:

Keep out of reach of children.
Wash hands and face thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Dispose of contents/container to hazardous or special waste collection point.



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Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Contains Trisodium nitrilotriacetate: Suspected of causing cancer.
Not subject to classification according to 1. ATP - CLP < 5%.
see section 11: Toxicological information

3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 497-19-8	Sodium carbonate	25 - 50 %	Eye Irritation - Category 2A.
CAS 5064-31-3	Trisodium nitrilotriacetate	1 - 2.5 %	Acute Toxicity - oral - Category 4. Eye Irritation - Category 2A. Carcinogenicity - Category 2.
CAS 51580-86-0	Troclosene sodium, dihydrate	1 - 2.5 %	Acute Toxicity - oral - Category 4. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.

4. First aid measures

In case of inhalation:	Provide fresh air. Seek medical treatment in case of troubles.
Following skin contact:	After contact with skin, wash immediately with plenty of water. Change contaminated clothing. In case of skin irritation, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Rinse mouth and spit water out again. Repeatedly drink water. Do not induce vomiting. Danger of foam aspiration! Consult doctor afterwards.

Most important symptoms/effects, acute and delayed

In case of inhalation: Inhalation of dust may cause irritation of the respiratory system.
In case of ingestion: Danger of foam aspiration.
After contact with skin: Mild irritant
After eye contact: Redness, pain.

Information to physician

Treat symptomatically.
Product reacts alkaline.



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5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature: No data available

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Specific hazards arising from the chemical

Fires in the immediate vicinity may cause the development of dangerous vapors.

In case of fire may be liberated: hydrogen chloride, nitrous fumes, Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Fire water reacts alkaline.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

6. Accidental release measures

Personal precautions: Avoid contact with skin and eyes. Avoid generation of dust.

Do not breathe dust. Suitable protective clothing. Have eye wash bottle or eye rinse ready at work place.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

In case of release, notify competent authorities.

Methods for clean-up:

Collect dry and place in appropriate containers for disposal. Subsequent cleaning.

To clean the floor and all object contaminated by this material, use water.

7. Handling and storage

Handling

Advices on safe handling: Provide good ventilation in the work area. Avoid contact with skin, eyes, and clothing. Do

not breathe dust. In case of dust formation: Withdraw by suction.

Keep your workplace clean. Wear suitable protective clothing.

Precautions against fire and explosion:

not combustible

Storage

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place.

Hints on joint storage:

Do not store together with acids.

Do not store together with food.



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8. Exposure controls / personal protection

Exposure guidelines

Additional information: Please observe generally defined limit for dust:
OSHA-TWA USA: 15 mg/m³ (total dust)
OSHA-TWA USA: 5 mg/m³ (respirable fraction)

Engineering controls

Provide adequate ventilation, and local exhaust as needed.
In case of dust formation: Withdraw by suction.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Nitrile rubber-Layer thickness: 0,11 mm.
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: In case of dust formation: Dust mask or Particulates filter P1 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

Avoid generation of dust. Do not breathe dust.
Avoid contact with skin, eyes, and clothing. Change contaminated clothing.
Have eye wash bottle or eye rinse ready at work place.
After work, wash hands and face.
Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Form: solid, Tablets
Color: white

Odor: weak
Odor threshold: No data available

pH value: at 10 g/L: 10.7

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point/flash point range: No data available

Evaporation rate: No data available

Flammability: No data available

Explosion limits: No data available

Vapor pressure: No data available

Vapor density: No data available

Density: No data available

Solubility: No data available

Partition coefficient: n-octanol/water: No data available



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Auto-ignition temperature: No data available
Thermal decomposition: No data available
Additional information: No data available

10. Stability and reactivity

Reactivity: Product reacts alkaline.
Chemical stability: Product is stable under normal storage conditions.
Possibility of hazardous reactions
Reacts with acids with development of heat and formation of chlorine gas.
Conditions to avoid: Protect from excessive heat.
Incompatible materials: Acids
Hazardous decomposition products:
Fires in the immediate vicinity may cause the development of dangerous vapors.
In case of fire may be liberated: hydrogen chloride, nitrous fumes, Carbon monoxide and carbon dioxide.
Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.
Other information: Information about Trocloses sodium, dihydrate:
LD50 Rat, oral 550 - 1600 mg/kg.
Limited evidence of a carcinogenic effect.



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Symptoms

In case of inhalation: Inhalation of dust may cause irritation of the respiratory system.

In case of ingestion: Danger of foam aspiration.

After contact with skin: Mild irritant

After eye contact: Redness, pain.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful effects on water organisms by modification of pH-value.

Information about Troclosen sodium, dihydrate:

Daphnia toxicity:

EC50 Daphnia magna: 0,28 mg/L/48h.

Fish toxicity:

LC50 Oncorhynchus mykiss: 0,25 mg/L/96h.

Mobility in soil

No data available

Persistence and degradability

Further details: Sodium carbonate:
Methods for the determination of biodegradability are not applicable to inorganic substances.

Trisodium nitrilotriacetate:

Biodegradation: > 90 % (OECD 302B, ISO 9888)

Product is readily biodegradable.

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.
Avoid spills and leaks. Very small amounts contaminates drinking water.
In case of release, notify competent authorities.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Rinse with water. Wrap waste as is appropriate for the type of material.
Single packs can be disposed of together with household waste.

14. Transport information

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted



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Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - U.S. Federal Regulations

Sodium carbonate: TSCA Inventory: listed
TSCA HPVC: not listed
Trisodium nitrilotriacetate: TSCA Inventory: listed
TSCA HPVC: not listed

National regulations - U.S. State Regulations

Troclosene sodium, dihydrate: Massachusetts Haz. Substance codes:
5
Pennsylvania Haz. Substance code: -

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains 25 - 50 % Sodium carbonate, 1 - 2.5 % Trisodium nitrilotriacetate, 1 - 2.5 % Troclosene sodium, dihydrate. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 0 (Minimal)
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)
Flammability: 0 (Minimal)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

JT Baker Storage Color Code: Green (General Storage)

Reason of change: Changes in section 1: Emergency phone number (Denmark)
Changes in section 2: labeling

Date of first version: 11/15/2011

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.